# **HUNTING BIRDS**

### Interesting Experiences of a Scientist With a Gun.

(Continued from Yesterday.)

The nests of this species, of which are so similar inter se as to be easily distinguished from nests of the other species on the island. Still they differ considerably, especially in the materials used, from others of the same genus now in the museum collection. of the Ou that have been collected on The most definitely identified and the large islands of the group. It is best constructed nest (Mus. No. 4696) felt that certain questions that have no means common. Since the above is one taken May 27, about half way been raised concerning this interesting date it has certainly very appreciably down the Pelekunu pali. It was built genus can then be cleared up. For the in a stunted onia tree beside the trail present it is sufficient to say that sixand was poorly, if at all, concealed teen skins of both sexes, adult and im-It was placed on a horizontal limb mature, were secured on Molokai during fifteen feet from the ground, which April, May and June. brought it on a level with the path on the crest of the ridge. Its external tions visited in the forest area, in a dimensions are 5 inches across by 2.25 ratio of about one to twenty, as cominches in depth. The bowl is 2.25 pared with the Amakihi. Hence it is inches across by 1.25 inches in depth. not; relatively speaking, the abundant Externally, the structure is loosely species its size and song would seem woven from green moss. Into this, as to make it, especially when compared a secondary lining, is worked some with the much smaller and more obbrown fibrous material of the color of scurely colored Chlorodrepanis. pulu, but resembling closely the soft | The Halawa forest makes an ideal inner bark of the ohia. The lining home for this ieie-loving bird, since proper is a generous one, composed that region, as has elsewhere been menentirely of the fiber of the dead leaves tioned, is a perfect tangle of this vine. of the iele. The nest is a well-woven, Along the streams patches of wild bacompact structure. When first taken nana are also common, while Olona it was strongly scented by the pecu- (Touchardia), another food plant of the liar drepanine odor, a trace of which species, is met with everywhere in suitstill clings to it. Though no eggs able places. As icie has apparently had were in the nest, the parent bird was on when it was discovered.

May 24, is a sort of concession to civ- It is, nevertheless, always to be found beast, was traversed to no avail. Many ilization, being placed in the upright in the more dense ohia forests, even hours were spent in silently watching fork of a lantana bush that was grow. though the amount of leie is small, or and listening in places where, according ing among the ohla trees, a consid- wanting entirely. In the heavily wood- to the oldest natives and even those erable distance into the forest. It is ed loclities, it feeds through the tops substantially the same as the one just of the trees, seldom coming near the formerly to be met with, almost described, though not of as high order ground. At such times there are usually

of workmanship.

Oreomystis flammea (Wilson).

adult plumage. In the field the flame-thus developed, especially during cloudy red males are in a decided minority, weather. If the call is imitated the young birds that have assumed more of the adult will be found in such commore apt to find pairs mated and settied before the male has assumed onethird of the conspicuous red plumage to which he is heir.

In habits the Kakawahia resembles the species of the genus to which it belongs, and from which it differs in color so widely. They prefer to feed over the trunks and branches of the bling in many respects that of the wa, Molokai; May 25, 1907; W. A. trees. Here they secure the insects that canary. Perhaps the favorite place for Bryan. make up almost the whole of their diet. However, they will be seen in the tops branch of some dead ohia tree, standing of Molokai only. of the tallest trees, but apparently paying little or no attention to their flowtervals moths are taken of such size they are compelled to hold them under their feet and pull them to pieces so as to devour them piecemeal, much after the fashion of the common chick-

When they have once settled on a home in the forest fley at once set possible, to the exclusion of every trespasser. On the approach of some in truder, as a man or a dog, they will both set up a scolding "Chirk, chirk," that is no uncertain sound to one familiar with birds' voices and ways. If the alarm chirk is continued long flights, as from one ridge to another, enough, the nearest neighbors are rarely so far away that they will not come in to satisfy their natural curiosity and add the weight of their presence and

voice to the protest. The Kakawahia, like his cousins, is full of curiosity. The sound of one sure to attract the little resident to the scene, when uttering their never-varied "chirk," they will come close enough to the person to take in every detail of his makeup in wide-eyed inquisitiveness. Once satisfied that their show of authority has no intimidating effect, they will resume their feeding close to the observer. One can thus study their movements at close range. I have often watched them under the most favorable circumstances, for an hour or more at from their neighbors, as far as they a time, but have never seen them paying the slightest attention to the nectar-bearing flowers about them. Occasionally they go down in the shrubs to within a foot or so of the ground, and it is probable that on rare occasions I have never seen them do so.

secured and remain as yet unknown, culmen 60, The best specimen (Mus. No. 4691) was made by a fine red male Kakawahia, culmen 60. accompanied by its mate and three immature birds. They came up close to 6.70; wing 3.50; tail 2.15. Average: me and were loud and determined in Length 6.92; wing 3.59; tail 2.20; toe their "chirks," Looking about for the 95; culmen 60. Maximum; Length 7.10; cause, I found it in the shape of a wing 3.65; tail 2.40. nest but a few feet from me. It ap- It is remarkable that the nesting peared to be just completed. It is made habits of this bird, which has in times up of mess neatly woven together, and past been common on all the islands of 2.75 inches deep. The interior is lined collected and studied, should as yet rewith the blackish root-like stems of main entirely unknown. dead moss and a few fibers from disintegrated leie leaves. The bowl is

ohia limb some fifteen feet from the ground has been used as the site.

I conclude that the young birds following the adults were from a late brood of the year before, and doubtiess would themselves not breed until the following fall or spring; though one of the young was well advanced in assuming the plumage of the adult.

The second nest (Mus. No. 4694) was also taken from an ohia tree. It was collected at Mapulehu June 9, and is in every way similar to No. 4691, ex-

A third nest, in an unfinished condiforest on April 30. The old bird was seen carrying the moss of which the exterior is composed. The site was an three fine specimens were collected, upright fork of a small kawau tree about eight feet from the ground.

Psittirostra psittacea (Gmel.). It is my intention in a separate paper choice series of almost a hundred skins

The Ou was met with at all the sta-

much to do in the evolution of its peculiar beak, the Ou commonly frequents A second nest, taken at Halawa, the forests where it is most abundant. several birds in the locality scattered about in scout formation. They seem rarely to alight together in the sme Of this species an excellent select tree, yet they always keep within easy series was collected which shows the call of each other. The inquiringly various stages through which the birds whistled call note "Psweet" is freof both sexes go before attaining their quently given, and answered by birds occurring in the ratio of about one in bird will readily respond a number of nine. But in my series of study speci- times in succession, often cautiously mens, they are in the ratio of one to approaching the observer to satisfy its three. This is owing to the tendency curiosity. The young birds are much in the field to take the bright colored easier decoyed in this way than are the bird, and not (as might erroneously be more experienced adults. It is not unconcluded) because they are easier to common to have the green inconspicuobtain than the females or immature. ously colored birds answer one from The fully adult male at this season is a tree near at hand, several minutes usually accompanied by the female and before its whereabouts can be deterfrom two to four parti-colored imma- mined. A number of times during ture birds of both sexes. Occasionally drenching rains, I have heard the call note plaintively given, and after prothan three-fourths of the red plumage tracted search have found the bird tion, cannot longer be doubted by any standing motionless in a very dejected one. panies. On the other hand one is rather attitude, huddled close against a tree trunk, or stowed away in a thick bunch of leaves for shelter.

Of its musical powers much has been written, as it has been quite commonly given first place among the singing Drepanididae. The song—which, by the Puualu Mountain, Molokai; April 22, Drepanididae. The song—which, by the way, is rarely given in its entirety—is especially sweet and pleasing, resemdelivering its song is from the topmost in an opening in the dense surrounding forest. From such a station it will In short, they are persistent and often sing intermittently for an hour or ardy entomologists, always active and more. It is liable at any time to dis-

The adult male is, by reason of its golden yellow head, a conspicuous bird, but with the head has been supplied a large amount of caution which results than would otherwise be the case. The female and the immature of both sexes are inconspicuously colored, and for about to establish their sphere of influ- that reason are often passed by the ence, over which they rule, so far as collector unobserved. As is so often the case, owing to the curiosity and want of fear in the young, more immature than adult birds are always col-

lected. The flight of the Ou is rapid, heavy and direct. During their more extended they are more often than otherwise in

a decoy whistle frequently, coming at their bases, which is bordered before within easy range of one, eying the intruder narrowly all the while, A sudden motion, or an unusual noise will invariably put the bird to flight, when tion, but not conspicuously so. Lores making one's way through the woods is they will dart off without further ado, not infrequently flying half a mile or more in a direct line. Like the Apa- of the body like the breast. Flanks island distances and its power of flight pane, I have observed the Ou making long-sustained flights from the palis of abdomen clear white; under tail cov- that its habits are such that it does the large valleys, that carried them erts ranging from pale buffy cream to not venture voluntarily on such flights. readily from one valley to another. At white; bill black, iris brown; feet and Furthermore, by rarely exposing itself such times they rarely, if ever, soar or tarsus dark brown; soles pale yellow in the open or getting far from cover, circle about, but set off directly for the in life. Length 8.25 (8.31)-8.40, wing it reduces the possibility of such migrafresher fields with a show of knowledge 3.67 (3.73)-3.80, tail 3.10 (3.17)-3.25, tions being accidentally made through and determination that makes them tarsus 1.22, toe 1.00, culmen .72. while on the wing, easily distinguished

> can be seen. The series of skins give the following maximum, minimum and average meas-

Four Adult Males-Minimum: Length 7.00; wing 3.50; tail 2,20; tarsus 87; toe they do alight on the ground, although 90; culmen 60. Average; Length 7.06; wing 3.70; tail 2.24; tarsus 90; toe 97; A good series of fairly well identified culmen 60. Maximum; Length 7.25; nests was taken, but the eggs were not | wing 3.80; tail 2.40; tarsus 92; toe 1.05;

Five Females-Minimum: Length secured in the middle of the Halawa 6.75; wing 3.50 tail 2.10; tarsus 87; toe forest on May 27. I had climbed into 95; culmen 60. Average: Length 7.00; an ohia tree to take a survey of the wing 3.61; tail 2.22; tarsus 90; toe 95; surrounding country, when my attention culmen 60. Maximum: Length 7.25; was attracted by the disturbance being | wing 3.70; tail 2.40; tarsus 92; toe 95;

Four Immature - Minimum: Length

easures 4,00 inches in diameter by the group and has been so generally

Moho bishopi (Roths.).

An ENLARGEMENT of one of your own PICTURES --- Any negative that will make § a good ordinary print will make a good enlargement. They can be made as rich as etchings if taken to

nouncing the Bishop Oo a very rare bird. During that time not a specimen cept that it was placed in an upright was secured, nor was I able to hear so much as a sound that could be even attributed to it. This is the more retion, was taken on Kilohana in the wet markable since we know that its characteristic call can be heard in the forests, especially in the more favorable districts-as at the heads of the great valleys mentioned-for a half mile or

My disappointment at not securing this species was most keen. However, as the Museum received but three imto discuss at some length the Museum's perfect specimens as its third share of the collection made by Mr. Perkins, I feel sure the species was at that time (September and August, 4893) by decreased in numbers, as Mr. Munro and I are ready to testify. The requirements of the Museum's exhibition and study series, no less than my desire to see and study the bird alive, nerved me to put forth every effort to discover its whereabouts. No pains were spared in making a thorough examination of every locality suited to its habits, as well as every place where it had been merely reported as having been seen in recent times. As a result, the wildest and most difficult parts of the island forests were visited, not once, but repeatedly. On several occasions a night or more was spent, sleeping in the open, in the center of promising localities not to be reached otherwise, in the hope of hearing, if possible, the call of the Oo either in the late afternoon or early morning. Feeding grounds where the bird was reported to have been seen 'in small flocks'' a few months before, were revisited, usually accompanied by the persons reporting the observation, with the uniformly discouraging result. Virgin forest, unfrequented by man or of the present generation, birds were always on even the most easual day's ramble in the woods Its feeding grounds among the ohia, the bananas and the lobelias were regularly visited. The deep gloomy woods, the bright forested ridges, the secluded valleys were explored from end to end of its habitat, all without seeing so much as a single sign of the bird to encourage one to further effort.

Nevertheless, since the present species, as well as its cousins of Kauai and Hawaii are known to be gregarious and nomadic at certain seasons, it may be that such habits account for its occasional appearance, and more fre- buttal when we consider that neither many times, singing, feeding, and exceedingly rare bird, there seems little question. As to its being already extinet, I am not yet convinced, but that it is very near the verge of extermina-

### Phaeornis rutha, New Species.

Type specimens. Male: B. P. Bishop Museum No. 4631; Kilohana Mountain, 1907; W. A. Bryan, Immature Male: B. P. Bishop Museum No. 4628; Hala-

Habitat. Forest area of the island

Specific Characters. Similar to la naiensis but with the throat and breast much grayer; abdomen and under tail coverts whiter; back darker oliveert, but strange to say, they seldom, appear in the woods, only to return brown; size uniformly a trifle larger; ever, take insects on the wing. At presently to take up its song again. broader.

> Diagnostic Characters. Uniform in color; above brown or hair-brown with an olive wash; with no conspicuous in it being much rarer in collections markings on the outer tail feathers; size larger, length (in the flesh) 8.25-8.40, wing 3.67-3.80, tail 3.10-3.25; darker above in adult and immature, and without any rusty gray east on the crown and mantle. Grayer on the

Description of Type. Adult Male: Above inconspicuous dull brown with dusky olive tinge; head darker colored than the mantle. The grayish wash of lanaiensis over the head and rump wanting even in moulting birds. Outer webs of the inner primaries and most small flocks, Birds of both sexes answer of the secondaries with a blackish patch with a rusty brown patch; center tail feathers like the back; outer pair paler abounds. on their outer webs on the basal porblackish and gray, grayest on the breast and palest on the throat; sides and thighs rusty olive. Center of the

> Adult Fema! .: Similar to the male in color. Length 8.40, wing 3.70 (3.72)-3.75, tail 3.05 (3.09)-3.12, culmen .70. Immature Male: Similar to young lanaiensis, but much darker and less rusty olive over the back; under parts uniformly grayer; wings and tail longer. Length 8.00, wing 3.65 (3.69)-3.75, tail

> 3.05 (3.11)-3.15, culmen .71. When studying the material prepara-tory to writing my Key to the Hawaiian Birds, in 1899, I was convinced that the Molokai form would prove distinet from the Lanai form. Since then as the Museum's series of specimens from the two islands has increased evidence has accumulated all tending to substantiate the premise there expressed (Memoir B. P. Bishop Museum. vol. i, p. 311) until now, with the addi tional series of 20 carefully sexed birds in the collection just made, there is no reason for hesitating longer in separating these two closely allied forms This I have done, naming the Molokai

Olomao in memory of my wife. That the species from the two islands are very similar is not surprising, since the islands are only a few miles apart.

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quent complete disappearance in certain Lanai nor Molokai has, to our knowl- fluttering its wings alternatively. It is sections. However that may be, of the edge, sent out settlers to the nearby true that the quivering is more fact that the Oo is a rare—indeed an and larger islands of Mani and Only in resorted to under the stress of and larger islands of Maui and Oahu, in resorted to under the stress of excite. 5:31 p. m., "7:30 p. m. sufficient numbers, if at all, to in the ment, but it is equally certain that it in the field.

As is well known, all the species of Phaeornis are highly sylvan, rarely leaving the deeper woods. Or, if oceasionally inhabiting the more open parts of the woods, they are always of settled habits, frequenting the same sections throughout the year. They never seem always by short covered flights. For bird, and for that reason, instead of able. exposing itself in the open it prefers low flights, usually through the shade of the forest. Again, a flock of Olomao, even a flock in the most restricted sense, has, I believe, never been seen. When they rove about at all they are alone, or at most in pairs. In my experience with the genus on Kanai, Mookai and Hawaii, I have never seen them high up in the air, and sustain a flight of any distance above the treequently lifts them into the air in a through the trees to some other favorite retreat. In marked contrast with the habits of the wide-ranging Apapane or liwi, I have never witnessed a bold flight of even a solitary individual from the high forest-clad palis where it

It would be perfectly possible physiback and forth from Molokai to Lanai, or to Maui, or Oahu, so far as the interare concerned. But I am convinced

the agencies of wind and weather to the minimum. Hence it is highly probable that the inter-island migration and breeding of sufficient numbers of the two forms to influence the mass of individuals on both islands sufficiently to keep them breeding to type does not

species coincide very closely with those of the other species of the genus. Berries are by far its commonest food. While insects were found in the stomachs of a part of the birds examined, they occurred in no considertimes I came on the birds feeding on their behavior at close range unobor two authors to fear alone.

generally accepted, namely, that the Pausing as if to study the effect, or to wail.

and Molokai. A sufficient cause for already in print. No one is able to a. m.; returning, arrives in Honolule their not throwing out stragglers or see the singer of hear its song without at 10:10 p. m. The Limited stops only livered from the topmost branches of some favorite tree; although it is to be found frequently singing joyously in the underbrush. When singing the head is always thrown well back, the throat full and free, and the wings and tail are invariably relaxed and drooping. The irregular, at times somewhat jerky, to range very far from any particular though always melodious song is given locality where they have taken up a not once or twice, but often dozens not once or twice, but often dozens residence. If they do go afield, it is of times. Once heard its character will live in the memory for years, though the Olomao is by nature a shy, timid its component parts are wholly inimit-

Not only does the Olomao sing early to proceed from place to place by short, and late, but in fine weather I have heard it far into the night. One of the peculiarities of the song is its ventriloquistic character. A bird may be singing volubly in a tree not twenty yards away, and so varied in volume and timbre are the notes as the song increases from its beginning of a few low chirping notes to the zenith of its power and beauty, that even an experienced observer is at times at a loss to locate tops. Their buoyant spirit not infre- the songster. In truth it seems that the whole tree might be full of song. prolonged burst of song, but when they The voice comes from the center, from have finished the effort they drop back the right, from the left, from the back into cover and if so minded work off and from the top of the tree successive ly or simultaneously, seemingly at the Leave Kabuku for Laie, Haupleasure of the musician. So marked is this power that a bird in plain sight may sing a half dozen times before the sombre-colored piper will be discovered. In addition to the song the Olomao has a number of notes and calls. One which is very puzzling, especially to the nacally for the Olomao to readily pass tives, is a cat-like cry which is given in an inquiring intonation from some hiding place in the undergrowth.

The species was more abundant at Halawa than at any of the other localities visited. This was doubtless due to the seclusion afforded by the untrodden forests of that section. A few immature birds were taken, but the majority of those seen were in the fully SUGAR FACTORS AND adult plumage. The length of time required for the young to acquire the adult plumage is apparently more than

in an ohia tree growing in the dense woods on the summit of Puualu, a nest which I have no hesitancy in referring to this species. In the locality was a pair of resident Olomao, evidently the owners of the nest (Mus. No. 4710) here described. Externally it is over 6.00 inches in diameter by 3.50 inches deep. Small dead ohia twigs form the foundation of the structure. Into this is placed a generous lining of moss and fine rootlets neatly woven together to form a substantial thrush-like nest. The hollow of the nest is 3.50 inches across served. It was thus possible for me to by 1.50 inches in depth. The nest has settle some minor points as to their evidently been used and deserted, behavior, particularly as to the cause though unmista cab'y of recent construcwings which has been attributed by one is known of the egg of any of the

just over 2.00 inches across by 1.50 inches deep. A horizontal fork of an inches deep

### Oahu Railway TIME TABLE

OUTWARD.

For Walanae, Walalua, Kahuku and Way Stations—9:15 a. m., \*3:20 p. m. For Pearl City, Ewa Mill and Way Stations—†7:30 a. m., \*9:15 a. m., \*11:15 a. m., \*2:15 p. m., \*3:20 p. m., \*5:15 p. m., ‡9:30 p. m., †11 p. m. For Wahiawa—\*9:15 a. m., and \*5:15

Arrive Honolulu from Kahuku, Wat-alus and Waianae-8:36 a. m., 5:36 Arrive Honolulu from Ewa Mill and Pearl City-†7:46 a. m., \*8:36 a. m., \*10:38 a. m., \*1:40 p. m., \*4:31 p. m.,

Arrive Honolulu from Wahiawaleast way prevent the genus from disappearing entirely from the last mentioned islands, while they have continued to remain common on both Lanai and Molokai. A sufficient cause for already in which was a sufficient cause for already in the sufficient cause for all a sufficient cause for already in which was a sufficient cause for already in the sufficient cause for all already in the sufficient cause for already in the sufficient cause for already in the sufficient cause for all already in the sufficient cause for al

regular settlers is perfectly apparent being impressed by its thrush-like charwhen a close study of the genus is made acter. The effort is more usually de-G. P. DENISON, F. C. SMITH, Superintendent. G. P. & T. G. P. & T. A.

### Koolau Railway TIME SCHEDULE

DAILY, EXCEPT SATURDAY, SUNDAY AND HOLIDAYS Leave Kahana for Punalun.

Hauula, Laie, Kahuku and Way Stations at ........ 12:00 M. Arrive Kahuku at ..... 1:00 P.M. Leave Kahuku for Laie, Hau-

ula, Punaluu, Kahana and Way Stations at...... 1:45 P.M. Arrive Kahana at ..... 1:45 P.M. SATURDAY, SUNDAY AND HOLIDAYS Leave Kahana for Punaluu,

Hauula, Laie, Kahuku and 

ula, Punaluu, Kahana and Way Stations at ...... 12:35 P.M. 3:00 P.M.

Connections are made at Kahuke with the O. R. & L. Co.'s 9:15 a. m. train from Honolulu, and the \$:20 p. m. train, which arrives in the city at 5:30 JANUARY 1, 1909. J. J. Dowling.

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of the peculiar trembling motion of the tion. It is singular that as yet nothing there was on Molokai a small brown bird that ran on the ground but could species of the genus, save the reference not fly," but that they had all been A bird under close observation flew by Henshaw (Birds of the Hawaiian dead for a long time. He gave its down to feed on the drupes of a small Islands, p. 31) to the finding of a small name as Moho (Pennula). He also said Olapa (Cheirodendron). After a few fragment of an egg shell in the stomach that his father had told him of the moments it flew up into a nearby tree, of a Hawaiian hawk (Buteo solltarius) Elepaio (Chasiempis) being on Molokai when, after deliberately cleaning its which he suggests might be a portion in the olden time. Mr. Theodore Mayer Yet the conclusion which has been bill it broke forth into its fullest song. of an egg of Phaeornis obscura of Hawher he was a boy it was generally birds from both islands cross the chan- see if the melody would be taken up It seems worth while recording that known to the old natives that both nel with sufficient frequency and regu- by its neighbors, it would tremble the an old native who accompanied me on the Moho and Elepaio had been plenti-